

WHAT IS CLAIMED IS:

1. A air permeable porous fiber pad, comprising:

a single-layer or multi-layer web, the web is cut by at least two sets of
rollers, thereby forming strip-shaped webs whose width is the same as the
width of the web. At least two sets of belts may divide the parallel juxtaposed
strip-shaped webs into spaced layers, at least two sets of rollers whose center
is adjustable may be used to adjust the position of each layer of
the strip-shaped web, so that the layers of strip-shaped webs may overlap each
other, and the overlapped layers of strip-shaped webs may be conveyed into a
cutter, thereby making a air permeable porous fiber pad.

2. The air permeable porous fiber pad in accordance with claim 1, the web includes a primary fiber of 55% to 85% mixed with a secondary fiber of 15% to 45%, thereby forming a raw material which may be processed by opening fiber, blending fiber, hopper, carding, slicing and straightening, crosslapper, heat treatment, cooling, slicer, and cutting blocks, finally making the air permeable porous fiber pad.

3. The air permeable porous fiber pad in accordance with claim 1, the web includes a primary fiber of 55% to 85%, thereby forming a material which may be processed by opening fiber, blending fiber, hopper, slicing and overlapping, crosslap, bonding agent treatment, heat it, cooling, slicing, and winding, thereby finally making the air permeable porous fiber pad, the bonding agent treatment may proceed a top spraying and a bottom side spraying, or dipping resin material of 15% to

1 4. The air permeable porous fiber pad in accordance with claim 1,
2 wherein the web is a crimped tow, the crimped tow is opened through the air,
3 so that the single filaments of the crimped tow may be separated, and may be
4 processed by the steps of the crosslap, bonding agent treatment and cooling,
5 thereby making the air permeable porous fiber pad.

6 5. A method for making a air permeable porous fiber pad, comprising
7 the steps of:

8 letting a single-layer or multi-layer web to be passed through and cut
9 by at least two sets of belt rollers, thereby forming strip-shaped webs whose
10 width is the same as the belt; the at least two sets of belts may divide the
11 parallel juxtaposed strip-shaped webs into spaced layers, at least two sets of
12 rollers whose center of shaft is adjustable may be used to adjust the position of
13 each layer of strip-shaped web, so that the layers of strip-shaped webs may
14 overlap each other, and the overlapped layers of strip-shaped webs may be
15 conveyed into a crosslapper, thereby making a air permeable porous fiber pad.

16 6. The air permeable porous fiber pad in accordance with claim 5,
17 wherein the web includes a primary fiber of 55% to 85% mixed with a
18 heat-melted fiber of 15% to 45%, thereby forming a raw material which may
19 be processed by opening fiber, blending fiber, hopper, carding, slicing and
20 overlapping, crosslap, heat treatment, cooling, slicing, and cutting blocks,
21 thereby finally making the air permeable porous fiber pad.

22 7. The air permeable porous fiber pad in accordance with claim 5,
23 wherein the web includes a primary fiber of 55% to 85%, thereby forming a
24 raw material which may be processed by opening fiber, blending fiber, hopper,

1 carding, slicing and overlapping, crosslap, bonding agent treatment, heat
2 treatment, cooling, slicing, and winding, thereby finally making the air
3 permeable porous fiber pad, the bonding agent treatment may proceed a top
4 side spraying and a bottom side spraying, or dipping resin material of 15% to
5 45%.

6 8. The air permeable porous fiber pad in accordance with claim 5,
7 wherein the web is a crimped tow, the crimped tow is opened through the air,
8 so that the single filaments of the crimped tow may be separated, and may be
9 processed by the steps of the crosslap, bonding agent treatment and cooling,
10 thereby making the air permeable porous fiber pad.

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